

## ABSTRACT

In a conventional video composition circuit which performs OSD display, sub video display, and main video display so that these displays are overlapped, a complicated video output unit for combining the three displays is required, and further, the memory size increases because the data of layers of the respective displays are placed on an internal storage unit. Moreover, since an OSD output unit, a sub video output unit, and a main video output unit are specially incorporated, it is difficult to change the functions.

In a video composition circuit, when transferring data from an external storage unit (101) to the video composition circuit, the transferred data and data stored in an internal storage unit (104) are subjected to vertical filtering using a video processing circuit (103) having a function of an OSD output unit, a function of a sub video output unit, and a function of a main video output unit, and an  $\alpha$ -blending function, to write the data over the internal storage unit (104), thereby performing display.